



Abstract:

An external fixator implant screw with an intercalated head, of which one embodiment for lag screw mode has a spherical head, and a partial thread. The spherical head in countersunk bone exerts concentric wide contact on insertion at various angles to surface. Optional canalization of central rod allows guide wire technique and optional mobility of head allows variable shaft length between head and thread. Another embodiment for use in basic implant mode, in a single bone fragment at right angles to bone surface, has a conical head with limited basal contact on bone, the head being integrated to a solid rod and is fully threaded from head to leading tip. In both embodiments, the load transmission is renewable from outside in case of loosening, without reopening any wound. The implant is made of biocompatible material.